

## ABSTRACT

There is provided a bank note processing machine in which a discrimination sensor can be formed compactly even when bank notes are discriminated using a light source having a plurality of wavelengths and in which the bank note transport path is shortened to achieve compactness. A bank note processing machine in which bank notes placed on an insert tray are sequentially delivered one by one to be fed to a discrimination sensor section; the bank note types and the genuineness or falsehood of bank notes are discriminated based on signals detected by a discrimination sensor at the discrimination sensor section; and the discriminated bank notes are sent to an accumulating section, wherein the discrimination sensor is formed by a light projecting section for irradiating over a slit area substantially the entire passing width of the bank notes and a light receiving section constituted by a photodiode array; the light projecting section is formed by a light guide plate and at least one LED provided on a side of the light guide plate; and the light projecting section and light receiving section are provided in a face-to-face relationship with the transport path of the bank notes sandwiched therebetween or provided in parallel on one the of the transport path.

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